

L 09093-67 EWT(1)/EWP(m) AT
ACC NR: AF7002336

SOURCE CODE: UR/0166/66/000/003/0041/0048

40

AUTHOR: Arifov, U. A.; Aliyev, A. A. Ayukhanov, A. Kh.

ORG: Physicotechnical Institute, Academy of Sciences Uzbek SSR (Fiziko-tekhnicheskiy institut AN UZSSR)

TITLE: Angular dependence of the energy spectra of secondary ions at various angles of emission

SOURCE: AN UZSSR. Izvestiya, Seriya fiziko-matematicheskikh nauk, no. 3, 1966, 41-48

TOPIC TAGS: ion bombardment, particle spectrum

ABSTRACT: Earlier articles by the authors described the use by them of an electrostatic analyzer to study the angular dependence of the energy spectra of secondary ions during the bombardment of metals by positive ions. On the basis of the resulting data the authors concluded that during the bombardment of metals by ions in an energy range of 1-3 kev scattering is explained by paired collisions - single and multiple. The earlier articles described the results of the energy analysis of the secondary ions emitted at a certain angle ($\theta = 50^\circ$) in relation to an angle of incidence of 10° - 80° . As a result of the design of the instrument it was possible, by changing the target position vis-à-vis the analyzer, to study the dependence of the energy spectra of the secondary ions on

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the angle of incidence at various emission angle values. The present article gives the results of these investigations, in particular, oscillograms showing the energy distribution and the angular dependence of the energy spectra at various angles of emission for secondary ions when a Mo target heated to 1800° K is bombarded by positive potassium or cesium ions with energy $E_0 = 1000$ ev. The authors discuss some of the results and conclude that they can be explained from the viewpoint of paired collisions of the bombarding ions with a system of free atoms. Orig. art. has: 3 formulas and 4 figures. [JPRS: 38,168]

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 001

Card 2/2 net

ACC NR: AP/003643

SOURCE CODE: UR/0020/67/172/001/0065/0068

AUTHOR: Aliyev, A. A.; Arifov, U. A. (Academician AN UzSSR)

ORG: Physicotechnical Institute, Academy of Sciences, UzSSR (Fiziko-tekhnicheskiy institut Akademii nauk UzSSR)

TITLE: Anisotropy of the angular distribution and structure of the energy distribution of ions scattered by the surface of a single crystal

SOURCE: AN SSSR. Doklady, v. 172, no. 1, 1967, 65-68

TOPIC TAGS: ion scattering, secondary emission, angular distribution, crystal surface, spectral distribution

ABSTRACT: To check on the result of theoretical calculations by the authors (Izv. AN UzSSR, ser. fiz.-matem. nauk no. 3, 41, 1966 and earlier papers), the authors investigated the angular dependence of the coefficient of secondary ion emission and the energy distribution of secondary alkali ions scattered by single crystals of W and Mo. The apparatus was described elsewhere (Izv. AN UzSSR ser. fiz.-matem. nauk no. 4, 20, 1964) but was modified to increase the resolution. The results show that the spectrum contains, besides the peak of ions singly scattered by individual atoms of the target, also additional peaks in the high energy region of the spectrum, corresponding to doubly scattered ions by different crystallographic planes. Similar secondary peaks are observed also for the energy distributions of the secondary ions. The ion-scattering coefficient is higher for single crystals than for polycrystals

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UDC: 537.334.8

ACC NR: AP7003643

at all scattering angles, and shows a faster growth with increasing angle. It has a minimum near 45° . It also decreases with increasing ion energy. The variation of the scattering coefficient is interpreted from the point of view of the contributions made by various crystallographic planes. Orig. art. has: 4 figures and 2 formulas.

SUB CODE: 20/

SUBM DATE: 10Sep66/

ORIG REF: 014/

OTH REF: 002

Card 2/2

MOTORIN, I.I.; OSIPOV, O.V.; ARIFULIN, S.A.; PETRYAYEV, A.A., ot v.
red.; CHERNEGOVA, E.N., red. izd'-va; LOMILINA, L.N.,
tekhn. red.

[Regulations for the exploitation of drilling, pumping,
compressor, power, special, and construction equipment]
Pravila ekspluatatsii burovogo, nasosnogo, kompressornogo,
silovogo, spetsial'nogo i stroitel'nogo oborudovaniia. Mo-
skva, Gosgortekhnizdat, 1962. 22 p. (MIRA 16:7)

1. Soyuzshakhtosusheniye, trust.
(Machinery)

L 11247-63

ACCESSION NR: AP3001071

EWT(1)/EWT(m)/BDS--AFPTC/AMD/ASD--RM/AR/K
S/0205/63/003/003/0440/0446

AUTHOR: Ganassi, Ye. E.; Sydus, L. Kh.; Arifulina, R. A.

TITLE: Investigation in vitro of the action mechanism of chemical protective substances. Report 1

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 440-446

TOPIC TAGS: aminoethylisotiuron (AET), vinbarbital sodium, mercamine, bisulfate sodium, pepsin solution, gamma radiation, action mechanism

ABSTRACT: Most protective action theories are based on the known properties of a given protective substance itself rather than a mechanism common to protective substances. The present work investigates systematically the protective action of aminoethylisotiuron/(AET), vinbarbital sodium, mercamine, bisulfate sodium, and beta-alanin, to which different action mechanisms have been attributed. The action mechanisms were studied by means of radiation inactivation of pepsin water solutions which were gamma irradiated from Co sup 60 or Cs sup 137 sources at 370 r/min. Radiation inactivation of pepsin in water takes place according to an exponential law, that is, the power of radiation increases with decrease of solution concentration. Figures 1-4 show pepsin irradiation inactivation in the presence of different protective substance concentrations. By analyzing the change of these dosage curves

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ACCESSION NR: AP3001071

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in the presence of the various protective substance concentrations, a mechanism common to all the protective substances is determined. Each substance apparently blocks radiosensitive parts of the protein molecule surface from oxygen access for a sufficiently prolonged time and this prevents hidden injuries of the "oxygen" type. "The authors express their gratitude to the doctor of biological sciences N. I. Shapiro and V. I. Suslikov for valuable remarks in discussing the study." Orig. art. has: 7 figures, 1 table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biological Physics AN SSSR)

SUBMITTED: 01Oct62

SUB CODE: 00

DATE ACQD: 01Jul63

NO REF SOV: 013

ENCL: 00

OTHER: 012

ch/dm
Carb 2/2

GANASSI, Ye.E.; EYDUS, L.Kh.; ARIFULINA, R.A.

In vitro investigation of the mechanism of action of
protective chemicals. Report No.1. Radiobiologiya 3 no.3:
440-446 '63. (MIRA 17:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

GANASSI, Ye.E.; EYDUS, L.Kh.; ARIFULINA, R.A.

Participation of oxygen in the radiation inactivation of dry
enzymes. Radiobiologiya 4 no.1:41-46 '64. (MIRA 17:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

USSR/Human and Animal Morphology (Normal and Pathological) Nervous System. S

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31231

Author : Arikhbayev K.F.

Inst : Not Given

Title : On the Problem of Innervation of the Adrenal Glands.

Orig Pub : Tr. Stalingadsk. med. in-ta, 1957, 25, 55-64

Abstract : On the basis of the degeneration of nerve trunks after the removal of the semilunar nodes of the solar plexus and by subdiaphragmatic vagotomy in dogs, the author established both the direct and the cross innervation of the adrenal glands from the node of the solar plexus as well as the participation of the vagus nerves in the innervation of the predominantly medullary substance of the suprarenal glands.

Cerd :1/1

RASPOPOV, I.V.; LUKASHOV, G.G.; PLISKANOVSKIY, S.T.; ARTYUKHOV, B.N.;
TARASOV, D.A.; ARIKHBAEV, V.V.; Primali uchastiye: ZENYUKOV,
V.P.; NEMTSOV, N.S.; GODLEVSKIY, A.I.; LEVCHENKO, G.F.;
DEGTYAREVA, Z.I.; GORLACH, A.A.; YAKUSHECHKIN, Ye.I.

Intensifying the sintering process by air preheating and by
improving the performance of exhaust fans. Stal' 23 no.8:
679-682 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy
zavod "Azovstal'."

(Sintering)

ASTAKHOV, A.G.; FEDOROVSKIY, N.V.; ARIKHBAEV, V.V.; LAVRENTIK, I.I.;
MAKOVSKIY, V.A.; SUMSKOY, N.A.

Determining the limits of shifting of the maximum temperature
zone along the length of a sintering machine. Met. i gornorud.
prom. no.2:18-20 Mr-Ap '65. (MIRA 18:5)

NIKITIN, A.I.; ARIKHBAEV, Ye.V.

Equipment shortcomings at the sintering shop at "Azovstal'" plant.
Stal' 16 no.1:15-19 '56. (MLRA 9:5)
(Zhdanov--Steel industry) (Sintering)

ARIKHNBAYEVA, Nina Vasil'yevna; KULESHOV, V.N., red.

[Organization of work in a maternity home] Organiza-
tsiia raboty rodil'nogo doma. Moskva, Meditsina, 1965.
73 p. (MIRA 18:12)

ARIKHBAYEVA, T.K.; IL'IN, I.I.

Certain characteristics of conditioned and complex reflex sound
leucocytosis in various psychopathologic syndromes. Zhur.nevr.i
psikh. 55 3:192-197 '55. (MLRA 8:7)

1. Leningradskaya psikhiatricheskaya bol'nitsa imeni Skvortsova-
Stepanova (glavnyy vrach N.D.Bulkin) i psikhiatricheskiy sektor
Instituta Fiziologii imeni I.P.Pavlova (dir. akademik K.M.Bykov).

(LEUKOCYTOSIS,

conditioned & complex reflex leukocytosis in psychoses)

(REFLEX, CONDITIONED,

conditioned leukocytosis in psychoses)

(PSYCHOSES, physiology,

conditioned & complex reflex leukocytosis)

ARIKO, N.G.; YEROFEEV, B.V.

Effect of saturated carboxylic acids on the rate of cyclohexene
oxidation. Sbor.nauch. rab. Inst. fiz.-org.khim. AN BSSR no.8:155-
160 '60. (MIRA 14 3)

1. Belorusskiy gosudarstvennyy universitet.
(Acids, Organic) (Cyclohexene) (Oxidation)

34873

S/081/62/000/003/017/090

B151/B144

5.3300

AUTHORS: Yerofeyev, B. V., Ariko, N. G.

TITLE: Effect of solvents on the radical-chain process of autooxidation of hydrocarbons

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 71, abstract 3B476 (Tr. po khimii i khim.tekhnol. (Gor'kiy), no. I, 1961, 89-94)

TEXT: The oxidation of cyclohexene in the presence of cobalt caprylate at 40-55°C in solvents (n-octane CCl_4 , $\text{C}_6\text{H}_5\text{CH}_3$, CHCl_3 , $\text{C}_6\text{H}_5\text{NO}_2$) is studied.

With increasing polarity of the solvent the kinetic order of the reaction decreases. In n-octane the order of the reaction is approximately 3, in CCl_4 and $\text{C}_6\text{H}_5\text{CH}_3$ <2, in $\text{C}_6\text{H}_5\text{NO}_2$ <1. The authors consider that as a result of the effect of polar solvents decomposition of the complex formed by the initiator and the cyclohexene takes place. The independence of the activation energy on the polarity of the solvent in the autooxidation of cyclohexene in solutions is evidence that ionic processes play no

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Effect of solvents on the...

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significant role in the formation of free radicals. [Abstracter's note:
Complete translation.]

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S/081/60/000/007/001/012
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 7, p. 54, # 25669

AUTHORS: Starobinets, G. L., Ariko, P. G.

TITLE: Thermodynamic Properties and Structure of High-Molecular Paraffin
Hydrocarbon Solutions in Benzene

PERIODICAL: V sb.: *Thermodynamika i stroyeniye rastvorov*, Moscow, AS USSR,
1959, pp. 207-210

TEXT: The method of gas saturation at 49, 55, 58.3°C was used to determine the benzene vapor pressure over solutions of two fractions of high-molecular hydrocarbons separated from technical paraffin of 270 and 340 mol. weight respectively. The activities and partial values of free energy, enthalpy and entropy of the components were calculated. Deviations from the Raoult law and excessive changes in the free energy of the solutions are negative and increase in their absolute values with increasing molecular weight of paraffin and with raising temperatures. The formation of solutions occurs at a diminished entropy. It is concluded that the thermodynamic properties of high-molecular hydrocarbon solutions are one of the factors for their stability. In benzene solutions

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S/081/60/000/007/001/012
A006/A001

Thermodynamic Properties and Structure of High-Molecular Paraffin Hydrocarbon
Solutions in Benzene

the hexagonal structure of liquid high-molecular hydrocarbons becomes stabler
due to the solvation of hexagonal groups by solvent molecules.

I. Sokolova

Translator's note: This is the full translation of the original Russian
abstract.

Card 2/2

ARIKOVA, A. I.

"Hydraulic and Silting Regime of a Water Storage Structure With a Bottom Duct"
Izv. AN Kazakh SSR, No 131, Ser. Energ., No 6, 1954, 28-49

The author presents results of laboratory and natural experiments on the hydraulic and silting regimes of mountain dams with grates at the bottom. The investigations were conducted with different types of grates since the flow of a river can be in either an agitated or a quiet state. Experiments in silting showed how best to prevent the deposits from reaching the grate. The author states that calculations ~~XX~~ involved in dam construction will be presented in later articles. (RZhMekh, No 7, 1955)

SO: Sum-No 787, 12 Jan 56

ARIMIE, Elena; IOFDACHE, Stela, prof. (Turda)

Cabinet work to set up elementary notions on the earth's globe
for grade 5. Natura Geografic 17 no.1:70 Ja-F '65.

Arin, E. I.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. Mention is made of Bernshteyn, S. N. and Kolmogorov, A. N.

Arin', E. I. (Riga). On the Concept of Partial Continuity of Function.

75

Balk, M. B. (Smolensk). On an Analog of the Liouville Theorem.

75-76

There is 1 USSR reference.

Batyrev, A. V. (Rostov-na-Donu). On the Stability of a Solution of Hilbert Boundary Problem.

76

Belinskiy, P. P. (L'vov). On the Existence of a Solution of Variational Quasi-conformal Mapping Problems

77

Bredikhina, Ye. A. (Kuybyshev). On the Best Approximations of Almost-periodical Functions.

77

There is 1 USSR reference.

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7 K1V, 2.1

16(0); 28(2)

PHASE I BOOK EXPLOITATION

SOV/3365

Akademiyu nauk Azerbaydzhanskoy SSR

Tezisy dokladov Sovreshcheniya po vychislitel'noy matematike i primeneniya sredstv vychislitel'noy tekhniki (Outlines of Reports of the Conference On Computational Mathematics and the Use of Computer Techniques) Baku, 1978. 63 p. 400 copies printed.

Additional Sponsoring Agencies: Akademiyu nauk SSSR. Vychislitel'nyy tsentr, and Akademiyu nauk SSSR. Institut avtomatiki i telemekhaniki.

No contributors mentioned.

PURPOSE: This book is intended for pure and applied mathematicians, scientists, engineers and scientific workers, whose work involves computation and the use of digital and analog electronic computers.

COVERAGE: This book contains summaries of reports made at the Conference on Computational Mathematics and the Application of Computer Techniques. The book is divided into two main parts. The first part is devoted to computational mathematics and contains 19 summaries of reports. The second section is devoted to computing techniques and contains 20 summaries of reports. No personalities are mentioned. No references are given.

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Khovanskii, G.S. On the Work of the Homogeneous Branch of the Computing Center at the Academy of Sciences SSSR	30
Arin', N.I. Method of Symbolic Addresses for a Two-address Machine	31
Mukhammadov, Yu.A. Results of Developing a Universal Digital Computer With Magnetic (Ferrite) Elements With Large Central Core Storage	32
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ARIN', E. I., IVANOVA, G. F., and LORENTS, A. A.

"On Formation of Concepts by Means of Automata"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294

ARIN', E. I.

"On Self-Teaching Machines" (11 March 1960)

report delivered at a seminar on cybernetics, Moscow State University

So: Problemy kibernetiki, Issue 5, 1961, pp. 289-294

ARIN', E. I., DAMBITIS, Ya. Ya., and SHNEPS, M. A.

"On Self-Organizing Systems"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294

S/194/61/000/012/019/097
D201/D303

9,7/00

AUTHOR: Arin', E. I.

TITLE: The symbolic address method for a two-address computer

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 6, abstract 12B33 (Tr. Vses. soveshchaniya, po vychisl. matem. i primeneniyu sredstr vychisl. tekhn. Baku, AN azerb SSR, 1961, 106-109)

TEXT: The content of a paper read at the All-Union conference on Computer Mathematics and Application of the Methods of Computer Techniques (1960) is given. The paper was presented to describe the transformation program (TP) which transforms any hand-written symbolic program (SP) into a program with real addresses. The program is designed for the Latvian SSR digital computer under construction. The computer has the following characteristics: 1) The computer has a fixed decimal point location and 30 binary digits after the decimal point digit; 2) the computer is a double-address machine; the

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HRIN, E.L.

BR

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PHASE I BOOK EXPLOITATION

SOV/5962

Vsesoyuznoye soveshchaniye po vychislitel'noy matematike i primeneniyu sredstv vychislitel'noy tekhniki, Baku, 1958.

Trudy (Transactions of the All-Union Conference on Computer Mathematics and Applications of Computers) Baku, Izd-vo AN Azerbaydzhanskoy SSR, 1961. 254 p. 500 copies printed.

Sponsoring Agency: Akademiya nauk Azerbaydzhanskoy SSR. Vychislitel'nyy tsentr.

Eds.: A.A. Dorodnitsyn, S.A. Aleskerov, and K.F. Shirinov; Ed. of Publishing House: A. Til'man; Tech. Ed.: T. Ismailov.

PURPOSE: The book is intended for mathematicians and other specialists interested in computer theory and uses for computers.

COVERAGE: The book contains the texts of 24 papers presented at the All-Union Conference on Computer Mathematics and Applications of Computers held in Baku, 3-8 Feb 1958. The "Resolution"

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Transactions of the All-Union (Cont.)

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of the conference, consisting of proposals for accelerating the development of computer mathematics and computer engineering, is also included.

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Dzhabarzade, R.M. The Use of Computers for Operational Weather Forecasting 20

Korolyuk, V.S. Construction of Logic Problem Algorithms 23

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Gagua, M. Numerical Solution of the Equation $Y' = f(x,y)$		94
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<u>Arin', E.I.</u> Method of Symbolic Addresses for a Two-Address Machine		106
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PART II. COMPUTER TECHNIQUES

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ARIN, E. I., DAMBITIS, YA. YA., SHNEPS, M. A. (2)

"On Self-Organizing Systems"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp 289-294

ARIN', E. I., IVANOVA, G. R. , LORENTS, A. A. (2)

"On the Formation of Concepts by Automata"

presented at the All-Union Conference on Computational Mathematics and
Computational Techniques, Moscow, 16-28 November 1961

So: Problemy kibernetiki, Issue 5, 1961, pp289-294

ARINA, A. *Ye.*

Social and economic changes in the village; District of Melitopol', 1885-1938.
Moskva, OGIZ, Gos. izd. kol'khoznoi i sovkhoznoi literatury "Sel'khozgiz", 1939.

1 Russia - Econ. condit. - Melitopol (District)

MH

ARINA, A. Ye.

ARINA, A.Ye.

Make broader use of mechanical harvesting of green peas. Kons. i ov.
prom. 12 no. 12:29-32 D '57. (MIRA 11:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.

(Peas--Harvesting)

ARINA, A.Ye.

Economic efficiency of mechanical harvesting of green peas. Kons.
i ov. prom. 13 no.2:37-39 F '58. (MIRA 11:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i
ovoshchesushil'noy promyshlennosti.
(Peas--Harvesting)

RUSAKOV, G.K., nauchnyy sotrudnik; MILYAVSKIY, I.O., nauchnyy sotrudnik;
ARINA, A.Ye., nauchnyy sotrudnik; PANKOVA, K.I., nauchnyy sotrudnik;
KHABAROV, N.F., nauchnyy sotrudnik. Prinimali uchastiye: PAVLOVA,
N.G.; VIATCHININA, V.G.; VARFOLOMEYEVA, M.M. TIKHONOVA, Ye.M., red.;
GUREVICH, M.M., tekhn.red.; DEYEVA, V.M., tekhn.red.

[Economic accountability on collective farms; regulations and
methods of introduction] Vnutrikhoziaistvennyi raschat v kolkhozakh;
primerno polozhenie i metodika vnedreniya. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1960. 71 p. (MIRA 14:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut ekonomiki sel'skogo khozyaystva (for Rusakov, Milyavskiy,
Arina, Pankova, Khabarov).
(Collective farms--Accounting)

RUSAKOV, G.K., kand.sel'skokhoz.nauk; SUBBOTIN, V.P., kand.ekon.nauk;
LIPATOVA, V.A., kand.ekon.nauk; ARINA, A.Ye., kand.sel'skokhoz.
nauk; KORENYUGIN, G.F., mladshiy nauchnyy sotrudnik; PANKOVA,
K.I., aspirantka; KLADCHIKOV, S.M., otv.red.; KOLYCHEV, L.I.,
red.; SVYADOSTS, Yu.I., red.

[Accounting on collective farms when business accounting is in
use] Bukhgalterakii uchet v kolkhozakh pri vnedrenii khozrasche-
ta. Moskva, 1960. 246 p. (MIRA 13:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Zaveduyushchiy otделom ekonomiki i orga-
nizatsii proizvodstva kolkhozov Vsesoyuznogo nauchno-issledovatel'sko-
go instituta ekonomiki sel'skogo khozyaystva (for Rusakov). 3. Otdel
ekonomiki i organizatsii proizvodstva kolkhozov Vsesoyuznogo nauchno-
issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for
Subbotin, Lipatova, Arina). 4. Kashirskiy opornyy punkt Vsesoyuznogo
nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva
(for Korenyugin). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut
ekonomiki sel'skogo khozyaystva (for Pankova).
(Collective farms--Accounting)

ARINCHENKOV, V.I., kand.tekhn.nauk; KORNEYEV, M.A., kand.tekhn.nauk

Operation of D-357G scrapers. Stroi. i dor. mash. 10 no.2:11
F '65.

(MIRA 18:3)

ARINCHENKOV, V.I., kand. tekhn. nauk

Structural defects in the D-395 power graders. Stroi. i dor.
mash. 10 no.6:23-24. Je '65. (MIRA 18:8)

ARINCHIN, N. I.

"Materials for comparison of the physiology of conditioned reflexes in the heart," report I, Arinchin, N. I. "On the problem of unconditioned reflexes in the heart," report II, Arinchin, N. I. "Conditioned reflexes in the heart of the rabbit," report III, Arinchin, N. I. "Conditioned reflexes in the human heart," report IV, Arinchin, N. I. "Conditioned reflexes in the heart of the pigeon," report V, Arinchin, N. I. "Unconditioned and conditioned reflexes in the hearts of wild planktonic birds (drakes, teals)," Trudy Voronezhsk. med. in-ta, Vol. XIV, 1948, p. 189-228

SO: U-2888, Letopis Zhurnal'nykh, Statey, No. 1, 1949

ARINCHIN, N.I.

Bloodless method of determination of vascular tonus in extremities.
Fiziol. zh. SSSR 38 no.6:748-750 Nov-Dec 1952. (GIML 23:4)

1. Department of the Pathophysiology of Higher Nervous Activity of the
Institute of Experimental Medicine of the Academy of Medical Sciences,
Leningrad.

ARINCHIN, Nikolay Ivanovich.

Academic degree of Doctor of Biological Sciences, based on his defense, 28 January 1954, in the Council of the Inst of Experimental Medicine, Acad Med Sci USSR, of his dissertation entitled: "Toward the Evolution of the Reflex Regulation of Cardiac Activity and the Interpretation of Electrocardiograms."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no 7, 26 Mar 55, Byulleten' MVO SSSR No. 14, July Moscow pp 4-22, Uncl.
JPRS/NY-429

ARINCHIN, N.I.; KARMANOVA, I.G.

Modification of venous pressure and tonus by conditioned reflex.
Fiziol. zh. SSSR 39 no.5:594-600 Sept-Oct 1953. (CIML 25:4)

1. Department of the Comparative Physiology and Pathology of Higher
Nervous Activity of the Institute of Experimental Medicine of the
Academy of Medical Sciences USSR, Leningrad.

ARINCHIN, N.I.

Method of in vivo translucence for studying a frog's heart. Est.v
shkole no.1:88 Ja-F '54. (MLRA 6:12)

1. Laboratoriya krovoobrashcheniya i dykhaniya otdela fiziologii
Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.
(Frogs) (Physiological apparatus)

USSR/Medicine - Physiology

FD-1337

Card 1/1 : Pub 33-15/25

Author : Arinchin, N. I.

Title : Concerning improvement of bloodless method of determining vascular tonus of extremities in humans.

Periodical : Fiziol. zhur. 4, 480-484, Jul/Aug 1954

Abstract : Plethysmograph and sphygmanometer have been successfully used together clinically to attain a bloodless method of determining the tonus of blood vessels and of venous and arterial pressure. This bloodless method proved to be effective in measuring the force and frequency of the pulse and in recording variations in the blood supply in the extremities. Presence of cortical regulation of the tonus of venous vessels and venous pressure was established by means of this method. Diagrams. Graphs. Twelve Soviet references.

Institution : Laboratory of Blood Circulation and Respiration, Division of General Physiology, Institute of Experimental Medicine, Academy of Sciences USSR, Leningrad

Submitted : October 19, 1953

ARINCHIN, N.I., doktor biologicheskikh nauk

Reflexes of the vascular system. Nauka i zhizn' 22 no.7:24-26
Jl '55. (MLA 8:9)

(Vascular system) (Reflexes)

ARINCHIN, N.I., doktor biologicheskikh nauk.

Treatment of hypertension. Nauka i zhizn' 23 no.1:63 Ja '56.
(HYPERTENSION) (MLRA 9:4)

Arinchin, N.I.
ARINCHIN, N.I.

Peculiarities of cortical regulation of vascular tonus and of venous blood pressure in man [with summary in English]. Zhur.vys.nerv.deiat. 7 no.2:224-230 My-Ap '57. (MLRA 10:9)

1. Laboratoriya krovoobrashcheniya i dykhaniya otdela obshchey fiziologii Instituta eksperimental'noy meditsiny AMN SSSR.

(BLOOD VESSELS, physiol.

regulation of tonus & of venous blood pressure by cond. reflex)

(BLOOD PRESSURE, physiol.

regulation of venous pressure by cond. reflex)

(REFLEX, CONDITIONED

cortical regulation of vasc. tonus & venous pressure)

ARINCHIN, N.I.; ZENKEVICH, Ye.S.

Half century of Korotkov's auditory method of blood pressure
determination and its further development. *Fiziol.shur.* 43 no.1:
92-95 Ja '57. (MLRA 10:2)

1. Laboratoriya krovoobrashcheniya i dykhaniya Otdela obshchey
fiziologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.
(BLOOD PRESSURE, determ.
auditory method of Korotkoff)

ARINCHIN, Nikolay Ivanovich

[Comprehensive study of the cardiovascular system]
Kompleksnoe izucheniye serdechnososudistoi sistemy.
Minsk, Gos.izd-vo BSSR, 1961. 203 p. (MIRA 17:3)

ARINCHIN, N.I. (Grodno); ZHMAKIN, I.K. (Grodno)

Review of I.P. Chukichev's book "Human physiology". Fiziol.
zhur. 49 no.2:264 F'64 (MIRA 17:3)

SUPRON, L.F., dots., otv. red.; ARINCHIN, N.I., prof., red.;
GEL'BERG, S.I., prof., red.; KLEPATSKIY, B.I., prof., red.;
LIBERZON, G.Ya., prof., red.; NOVIKOV, I.I., kand. med.nauk
red.; RAZUMOVICH, A.N., assistant, red.

[Abstracts of the reports of the Fourth Scientific Session
on the Problem: Physiology, Morphology and Pathology of the
Cardiovascular System] Tezisy dokladov Nauchnoi sessii po
probleme: Fiziologiya, morfologiya i patologiya serdechno-
sosudistoi sistemy. Grodno, Grodnenskiy med. in-t, 1962. 207 p.
(MIRA 17:10)

1. Nauchnaya sessiya po probleme: Fiziologiya, morfologiya i
patologiya serdechno-sosudistoy sistemy, 4th, 1962. 2. Zave-
duyushchiy kafedroy patologicheskoy fiziologii Grodenskogo me-
ditsinskogo instituta (for Supron). 3. Zaveduyushchiy kafedroy
normal'noy fiziologii Grodenskogo meditsinskogo instituta (for
Arinchin). 4. Kafedra normal'noy anatomii Grodenskogo meditsin-
skogo instituta (for Novikov). 5. Zaveduyushchiy kafedroy mikro-
biologii Grodenskogo meditsinskogo instituta (for Gel'berg).
6. Zaveduyushchiy kafedroy obshchey khirurgii Grodenskogo medi-
tsinskogo instituta (for Klepatskiy). 7. Zaveduyushchiy kafed-
roy nervnykh bolezney Grodenskogo meditsinskogo instituta (for
Liberzon). 8. Kafedra biokhimii Grodenskogo meditsinskogo in-
stituta (for Razumovich).

MOGILEVCHIK, Z.K.; GABRILOVICH, M.A.; ARINCHIN, N.I.; DMITRIYEV, A.;
KANTOR, D.; KLEBANOV, G.; ~~PILETSKIY, M.~~

Congresses, conferences, meetings. Zdrav. Bel. 8 no.6:68 Je'62.
(MIRA 16:8)

(NO SUBJECT HEADINGS)

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ARINENKOV, D.M.																																																																													
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Qualification of coal underground. D. M. Arinenkov. ^u <i>Vestnik Inzhenerov i Tekh.</i> 1938, No. 12, 748-749, 748-749. <i>Kentr.</i> 1939, 1, 4414; cf. C. A. 34, 00412.---Results of the qualification of coal underground in massive, nonloosened strata in the coal mines of Gorkovka are briefly discussed. M. G. Afanas																																																																													
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ARINENKOV, D.M.

Optimum system of the panel pipe network in case of underground
gasification of flat coal seams. Nauch. trudy VNII Podzemgaza
no.6:55-61 '62. (MIRA 15:11)

1. Yuzhgiprogaz.

(Coal gasification, Underground)

ARINENKOV, D.M.

Approximate method of determining the best diameter of blow and
gas evacuation boreholes for underground coal gasification. Podzem.
gaz.ugl. no.1:47-51 '58. (MIRA 11:4)

1. Gipropodzemgaz g. Stalino.
(Coal gasification, Underground) (Boring)

ARINENKOV, Dmitriy Mikhaylovich; MARKMAN, Lev Mironovich; BURLYGA, F.I.,
red.; TIMOSHEVSKAYA, A.A., tekhn. red.

[Underground gasification of coal] Podzemnaia gazifikatsiia uгля.
Stalino, Knizhnoe izd-vo, 1960. 93 p. (MIRA 14:11)
(Coal gasification)

ARINENKOV, D.M.

Ways of efficient utilization of gases recovered in mines. Ugol'
37 no.7:42-44 JI '62. (MIRA 15:7)

1. Yuzhgiprogaz.
(Mine gases) (Gas manufacture and works)

SERGEYEV, M.P., prof.; ARININ, I.N., aspirant.

Determining rotating masses of an inertia stand. Izv.vys.ucheb.zav.;
mashinostr. no.4:75-80 '64. (MIRA 18:1)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo
khozyaystva.

ARINGER, J.

Curving of drill holes. p. 270

RUDY Vol. 3, no. 9, Sept. 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

ARINGER, J.

Increasing productivity of test drilling. p. 304.

RUDY. Vol. 4, no. 10, Oct. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

ARINGER, J.

TECHNOLOGY

periodicals: RUDY Vol. 6, no. 3, Mar. 1958

ARINGER, J. Present problems of technical development of deep-hole boring in ore prospecting. p. 96.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959, Unclass.

5(3)

SOV/79-29-9-54/76

AUTHORS:

Stepanov, B. I., Arinich, L. N.

TITLE:

On the Substitution of the Halogen in Azo Compounds. VII. The Substitution of Chlorine in 2-Oxy-8'-chloro-(1,1')-azonaphthalene by Aroxy Groups

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 3052-3054 (USSR)

ABSTRACT:

In a paper by B. I. Stepanov, V. A. Savel'yev (Ref 1) the reaction of 2-oxy-8'-chloro-(1,1') azonaphthalene (an azo dye-stuff consisting of 1,8-aminochloro naphthalene and 2-naphthol) and its copper complex with sodium methylate was investigated. It is shown that in the first case in the presence of CuSO_4 , in the second case without addition of the free copper salts, a quantitative substitution of the chlorine atom by the methoxy group takes place easily. It was of interest to investigate whether a substitution of chlorine in this peri-chloro-o'-oxyazo dyestuff may take place by the aroxy groups. This seemed evident because the patent of Delfs (Ref 2) pointed to the substitution of chlorine in dyestuffs of similar type. However, only one example, the reaction with ethyl alcohol, was given

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On the Substitution of the Halogen in Azo Compounds. VII. The Substitution of Chlorine in 2-Oxy-8'-chloro-(1,1')-azonaphthalene by Aroxy Groups

and the reaction with phenols was not described at all. Earlier (Refs 3,4) it was shown that in the o-halogen-o'-oxyazo compounds which have a halogen lability comparable to the perihalogen-o'-oxyazo compounds, the halogen may be replaced by the aroxy group. In the present paper it was found that the reaction does not take place in the reaction of the initial dyestuff with phenolates and creclates in water in the presence of CuSO_4 in heating within 10 hours to $105-110^\circ$, whereas the same reaction with o-chloro-o'-oxyazo dyestuffs takes place under the same conditions without difficulties. In dioxane solution, by the use of acetic copper, the reaction which took place during 4 hours at 100° furnished a yield of 84-86%. Dioxane proved to be a convenient solvent since its final products are easily separated from it by the dilution with the reaction amount of water (or with 10% sulfuric acid which simultaneously also destroys the copper complex of the substituted dyestuff). There are 4 references, 3 of which are Soviet.

ASSOCIATION:
Card 2/3

Moskovskiy khimiko-tekhnologicheskii institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni

SOV/79-29-9-54/76
On the Substitution of the Halogen in Azo Compounds. VII. The Substitution
of Chlorine in 2-Oxy-8'-chloro-(1,1')-azonaphthalene by Aroxy Groups

D. I. Mendeleyev)

SUBMITTED: September 8, 1958

Card 3/3

ARININ, Igor' Nikolayevich; SERGEYEV, Mikhail Petrovich; KASHKEVICH,
E.I., red.

[Overall inspection of the technical condition of motor
vehicles] Kompleksnyi kontrol' tekhnicheskogo sostoianiia
avtomobilei. Cheliabinsk, IUzhno-Ural'skoe knizhnoe izd-vo,
1965. 102 p. (MIRA 19:1)

ARININ, V.I., veterinarnyy vrach.

OMP-A sprayer for the disinfection of stock barns. Veterinariia
33 no.5:68 My '56. (MLRA 9:8)

1. Podsobnoye khozyaystvo "Nepetsino", Kolomenskogo rayona, Moskov-
skoy oblasti.

(Disinfection and disinfectants)
(Spraying and dusting equipment)

ARINKIN, M. I.

DECEASED

Necrology

see ILC

ARINKIN, V.V.

AVRUNIN, A.G.; ARINKIN, V.V.; ANDREYEV, N.N.; STRUNGE, B.N.; SEMIDT, M.M.;
SEDOV, V.H., inzhener, retsenzents; MORGULIS, Yu.B., kandidat
tekhnicheskikh nauk redaktor; PETROV, G.I., inzhener, zaveduyu-
shchiy redaktsiyey; MATVEYEVA, Ye.N., tekhnicheskiiy redaktor

[The D50 series locomotive and marine engines] Teplovozyne i
sudovyye dvigateli D50; konstruktsiya, eksploatatsiya, razborka,
sborka i regulirovka. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1952. 269 p. [Microfilm] (MLRA 7:10)
(Diesel engines)

ARINKIN, V.V.

AVRUNIN, Abram Grigor'yevich; ARINKIN, Viktor Vasil'yevich; MUL'MAN, Boris Yefimovich; STRUNGE, Boris Nikolayevich; MORGULIS, Yu.B., kand. tekhn.nauk, retsenzent; MELEYEV, A.S., inzh., red.; GERASIMOVA, Ye.S., tekhn.red.; SOKOLOVA, T.F., tekhn.red.

[D 100 diesel engine] Dizel' D100. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry. 1958. 325 p. (MIRA 11:7)
(Diesel engines)

ARINKIN, Viktor Vasil'yevich; GINTSBURG, B.Ya., prof., doktor tekhn.
nauk, retsenzent; BASENTSYAN, A.A., inzh., red.; MODEL', B.I.,
tekhn.red.

[Increasing the performance of the piston set of the D100
diesel engine] Povyshenie rabotosposobnosti porshnevoi gruppy
dizelia D100. Moskva, Gos.nauchno-tekhn.izd-vo mashinostr.
lit-ry, 1959. 109 p. (MIRA 12:10)
(Diesel engines)

ARINKIN, V. V., CAND TECH SCI, ^{Raising the} ~~INCREASE~~ IN EFFICIENCY
^(the D-100)
OF THE PISTON ASSEMBLY OF A DIESEL." KHAR'KOV, 1961. (MIN
OF HIGHER AND SEC SPEC ED UKSSR, KHAR'KOV POLYTECH INST
IM V. I. LENIN). (KL, 3-61, 212).

NOV/138-59-3-5/125

TITLE: The Effect of Synthesis Conditions on the Properties of Latex Cells and Their Vulcanisates (Viyaniye ulovoryi sintezina na svoystva lateknykh geley i vulkanizatorov iz nih)

PERIODICAL: Kauchuk i 1932/da. 1950 W-7 10

ABSTRACT: Detailed investigations were carried out with various media and conditions of synthesis and their effect on physical and mechanical properties of crude latex gels and their vulcanizates were also tested. Experiments were carried out with natural latex ("Kavitska") and synthetic Marlet latex. The composition of both rubbers and mixtures is given. The latex was moulded into 30 mm diameter rings (of 14 mm thickness) and 30 rectangular sheets (314 x 112 mm) were an thickness. The gels were physical and mechanical characterization by the test of breaking and vulcanization. The humidity of the gels or both rubbers changed with the length of time of synthesis in various media. The following media were used:

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used 1.0% alcoholic solutions. Triethanolamine and triethylamine. The synthesis was effected at 50 to 60°C in hot water, triethanolamine, xylitols and a 10% solution of NaOH. The reaction temperature was 50 to 60°C. 1). The most important effect in all other media (figure 2) was observed in water. Synthesis proceeds slower in air than in water. It was also observed that the rate of synthesis was greater in hot than in cold water, i.e., that it proceeded more intensively in xylitol, triethanolamine and ethyl alcohol; this is due to the dehydrating action of the hydroxy groups in the compounds. Triethanolamine was most active when used with "Kvaliteks". Soda barium chloride was most effective when used with the latter two; this is obviously due to the stabilizer which forms an insoluble compound with a divalent cation Ba²⁺. Barium chloride acts on "Kvaliteks" (containing a protein emul-

Card 2/5

sifier) to a lesser degree; concentrated HCl is more effective than weak acetic acid. Synthesis proceeds at a slower rate in a NaOH solution than in water; this is due to the peptizing action of the hydroxyl ion. Figure 2 gives curves which characterize the strength of crude gels after different periods of synthesis. Data on the strength of gels with identical syntheses, shown in the form of curves (Figure 3), in xylitane have the strength of gels increases very slowly; in triethanolamine the strength of gels increases at first on lowering the humidity but soon decreases sharply. Maximum values of strength are observed when synthesis is carried out in a NaOH solution. The largest values of elongation were obtained when the process was carried out in xylitane (90-100%) and in hot water (up to 80°C). Physical and mechanical properties of vulcanized films from gels, when synthesis was carried out in various media for two hours, are given in a table. Various vulcanizates were prepared from gels when synthesis proceeded in hot water, on air, in solutions of barium chloride, xylitane, acetic acid and NaOH. The lower values of

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SOV/138-59-3-5/16
The Effect of Synthesis Conditions on the Properties of Latex Gels and Their Vulcanizates

Resistance of gel vulcanizates prepared in triethanolamine is probably due to the swelling of the rubber in the solution. Films prepared by swelling of the rubber in triethanolamine on air, after having gelling and subsequent increase in weight at 50 to 60°C kept in triethanolamine in weight. The strength of vulcanizates of gels and in a HCl solution. Further experiments showed that the rate of synthesis is carried out in ethyl alcohol of the vulcanizates only to a slight degree, the strength are given. The effect of the temperature of synthesis and on the physical and mechanical character of the gels was also investigated. The latex gels were subjected to syntheses for one hour in water of varying temperature; results are given in Figure 4.

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As the temperature was increased to 70 - 80°C. This is due to the large rate of shrinking of the gel. Optimum results were achieved when the water temperature was of an order of 60°C.

There are 4 figures, 1 table and 4 Soviet references. ASSOCIATION: Nauchno-issledovatel'skiy institut resinsovkh i lateksykh izdeliy (Scientific Research Institute for Rubber and Latex Articles)

Card 5/5

ARINS, E.

GENERAL

PERIODICALS: VESTIS No. 2, 1958

ARINS, E. Program for calculation of wages at the State Electronic Factory on electric
calculating machine. In Russian. p. 103

Monthly list of East European Accessions (EEAT) LC, Vol. 8, No. 2
February 1959, Unclass.

ARINS, E.; ~~SNEPS~~, M.

GENERAL

PERIODICALS: VESTIS, NO. 6, 1958

ARINS, E. ; ~~SNEPS~~, M. Symbolic programing for anelectronic - calculating machine of the Latvian Academy of Sciences. In Russian. p. 101.

Monthly list East European Accessions (EEAI) LC, VOL. 8, No. 2,
February 1959, Unclass.

ARIN'SH, B. I.

Dissertation: "Partially Continuous Functions." Cand Phys-Math Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 28 May 54. Vechernyaya Moskva, Moscow, 19 May 54.

SO: SUM 284, 26 Nov 1954

~~ARIN, E.G.~~

#RINSH, E.G.

Arin's, E. G. Some descriptive properties of monotone sequences of functions. Latvijas PSR Zinātņu Akad. Fiz. Mat. Inst. Raksti. 1, 101-104 (1950). (Russian. Latvian summary)

Let E be a complete separable metric space. A subset X of E is said to be residual if X' is of the first category in E . Let the real function f on E be the limit of an increasing sequence of upper semi-continuous functions. Then, on every perfect subset P of E , the points where f is lower-semi-continuous form a residual set. Let the property of Baire for a real function g on E be stated as follows: the points of continuity of g , considered on an arbitrary perfect subset P of E , form a residual set. Then the limit of a monotone sequence of functions enjoying the property of Baire also enjoys the property of Baire. The proofs are, of course, obvious.

E. Hewitt (Seattle, Wash.).

Set MATHEMATICAL REVIEW (Unclassified)
Vol XIV No 2, Feb 1953 pp 121-232

ARIN' / ARINS' / E. G.

ARINSH, Ye. G.

Mathematical
Reviews
Vol. 14 No. 8
Sept. 1953
Numerical and
Graphical Methods.

✓ Arin' [Arins'], E. G. On an application of graphical meth-
ods to nonlinear interpolation. Latvijas PSR Zinātņu
✓ Akad. Vēstis 1951, no. 1 (42), 154-162 (1951). (Russian.
Latvian summary)
The author devises a graphical method for solving an
elementary problem. W. E. Milne (Corvallis, Ore.).

8-10-54
LL

ARINSH, Ye: G. (ARIN)

Mathematical Reviews
Vol. 15 No. 4
Apr. 1954
Analysis

8-24-54
LL

Arin's, E. G. On a generalization of a theorem of Baire.
Uspehi Matem. Nauk (N.S.) 8, no. 3(55), 105-108 (1953).
(Russian)

Let E be a metric space which is an absolute G_δ and has a countable open basis. The following theorems are proved. If a function f on E is the limit of an increasing sequence of upper semi-continuous functions, then the function $f|P$ is lower semi-continuous on a set of 2nd category for every perfect subset P of E . If a function f on E is Borel measurable and if $f|P$ is lower semi-continuous on a set of 2nd category for every perfect subset P of E , then f is the limit of an increasing sequence of upper semi-continuous functions on E .

E. Hewitt (Seattle, Wash.).

USSR/Human and Animal Physiology - Blood Circulation.

T-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31733

Author : Arinshin, N.I.

Inst : -

Title : On More Accurate Indicators of the Condition of the Cardiovascular System in Man Determined by a Bloodless Method.

Orig Pub : V sb.: Yezhegodnik. In-t eksperim. med. Akad. med. nauk. SSSR, 1955, L. 1956, 105-106.

Abstract : No abstract.

Card 1/1

ARINSHTEYN, A.G.; LARIONOV, V.A.

Scientific investigations and the relation to production of the collective of the I.M. Gubkin Institute for the Petrochemical and Gas Industry. Izv. vys. ucheb. zav.; neft' i gaz 6 no.1:113-116 '63.
(MIRA 17:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina.

ARINSHTEYN, A.G.; GUREVICH, V.M.; LARIONOV, V.A.

Conference of the Moscow Institute of the Petrochemical and Gas
Industry named for I.M.Gubkina. Izv.vys.ucheb.zav.;neft' i gaz 6
no.11:124-127 '63. (MIRA 17:9)

ARINSHTEYN, A. I.

Arinshteyn, A. I. "The dynamics of fat accumulation and changes in the quality of hemp seeds during ripening", Seleksiya i semenovodstvo, 1949, No. 5, p. 48-50.

SO: U-4630, 16 Sept. 53, (Ietopis 'Zhurnal 'nykh Statey, No. 23, 1949).

ARINSHTEYN, A.I., kandidat sel'skokhozyaystvennykh nauk; TULIN, N.S.,
redaktor; TUREVICH, M.M., tekhnicheskiiy redaktor.

[Producing high yields of hemp, ambary hemp, and jute; collection
of articles] Vyrashchivanie vysokikh urozhaev konopli, kenafa
i dzhuta; sbornik, statei. Moskva, Gos.izd-vo sel'khoz.lit-ry,
1957. 109 p. (MLBA 10:6)

(Fibers)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29898

Author : Arinshteyn, A.I.

Inst : The All-Union Institute for Fiber Crops.

Title : Results of the Selection of Monoecious Hemp.

Orig Pub : Tr. Vses. n.-i. in-t lub. kul'tur, 1957, vyp. 22, 157-168.

Abstract : No abstract.

Card 1/1

ARINSHTEYN, A.I., kand.sel'skokhozyaystvennykh nauk; PELIPENKO, A.I.

Effect of crossbreeding on sex in hemp. Agrobiologiya no.2:
298-301 Apr '59. (MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lubyanykh
kul'tur, g.Glukhov.
(Hemp breeding) (Plants, Sex in)

TIMONIN, M.A., kand. tekhn. nauk; SENCHENKO, G.I., kand. sel'-khoz. nauk; ARINSHTEYN, A.I., kand. sel'khoz. nauk; GORSHKOV, P.A., doktor sel'khoz. nauk; ZHUKOV, M.S., kand. sel'khoz. nauk; DEMKIN, A.P., kand. sel'khoz. nauk; KRASHENINNIKOV, N.A., kand. sel'khoz. nauk; GORODNIY, N.G., doktor sel'khoz. nauk; REPYAKH, I.I., nauchn. sotr.; PIL'NIK, V.I., kand. sel'khoz. nauk; KHANIN, M.D., kand. sel'khoz. nauk; TSELIK, V.Z., st. nauchn. sotr. [deceased]; KOZINETS, N.I., nauchn. sotr.; ZHAININA, L.S., nauchn. sotr.; LYASHENKO, S.N., kand. sel'khoz. nauk; GONCHAROV, G.I., inzh.; BUYANOV, V.I., inzh.; RUDNIKOV, V.N., st. nauchn. sotr.; BLOKHINA, V.V., red.; PROKOF'YEVA, A.N., tekhn. red.; SOKOLOVA, N.N., tekhn. red.

[Hemp] Konoplia. Moskva, Sel'khozizdat, 1963. 462 p.
(MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lubyanykh kul'tur (for all except Blokhina, Prokof'yeva, Sokolova).
(Hemp)

ARINSHTEYN, A.I., kand. sel'skokhoz. nauk; MIGAL', N.D.

Effect of the quantity of hemp pollen grains on their germination,
the growth of pollen tubes, and the yield of hybrid seeds. Agro-
biologiya no.1:151-153 Ja-F '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lubyanykh
kul'tur, Glukhov.

ARINSHTAYN, B.N.; TARNOPOL'SKIY, R.R.

[Short prescription manual with elements of Latin grammar; an aid for medical personnel and for young doctors] Kratkiy spravochnik po retsepture s elementami latinskoj gramoty; v pomoshch' sredne-my medpersonalu i nachinauiushchim vracham. Tomsk, Izd-vo tomskogo universiteta, 1957. 187 p. (MIRA 11:9)

(PRESCRIPTION WRITING)

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CIA-RDP86-00513R00010201

ARIN SHTEYN 45-0

APPROVED FOR RELEASE: Thursday, July 27, 2000

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AUTHOR: ARINSHEYN, E.A. PA - 2237
 TITLE: The Crystallization Phenomenon in Statistical Physics (yavleniye kristallisatsii v statisticheskoy fizike, Russian)
 PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 112, Nr 4, pp 615 - 618 U.S.S.R.)
 Received: 4 / 1957 Reviewed: 5 / 1957

ABSTRACT: At first previous works dealing with this subject are discussed. The present work investigates the crystallization by the method of N.N. BOGOLJUBOV whereby the thermodynamic functions can be combined with the structure. At first a derivating functional for the determination of the distribution function of n particles is written down. A further functional $W(u) = \ln L$ determines the correlation functions. Next, the functional equation by N.N. BOGOLJUBOV used here is given. After repeated functional differentiation all g_s can be expressed by F_1 in any approximation (with respect to correlation), i.e. with an accuracy of up to any term within the development of the function $W(u)$. (Here it applies that: $F_1 = g_1$; $F_2(1,2) = F_1(1)F_1(2) + g_2(1,2)$; ...). Next a formula for the distribution function F_1 is derived by means of this method. At F_1 the system of approximations with respect to correlation is identical with the decomposition according to powers of density. However, the equation just mentioned

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The Crystallization Phenomen in Statistical Physics.

periodic solutions: there follows the domain of uninterrupted crystallization and only at still lower temperatures crystallization becomes a transition of the first type. (Without illustrations).

ASSOCIATION:

PRESENTED BY: Member of the Academy N.N.BOGOLJUBOV on 25.10.1956

SUBMITTED: 9.7.1956

AVAILABLE: Library of Congress

Card 3/3

20-114-6-14/54

AUTHOR: Arinshteyn, E. A.

TITLE: On the Statistical Theory of Crystallization (K statisticheskoy teorii kristallizatsii)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 6, pp. 1189-1191 (USSR)

ABSTRACT: N. N. Bogolyubov constructed a statistical theory of crystallization for monocomponent systems. The method developed in this paper can be generalized to the case of multicomponent systems with short range forces. In this case the distribution functions are defined by the deriving functional

$$\mathcal{L}(u_\alpha) = \int D \exp \left(\sum_{\alpha} \int u_\alpha(i) dq_i \right) \quad (\text{which contains } n$$

auxiliary functions u_α , $\alpha = 1, \dots, n$). In this connection n denotes the number of components. The functional equation for this functional is written down. By the aid of further functional differentiations and subsequent substitutions all distribution functions can be expressed by ordinary functions. Equations for these ordinary functions are given. The func-

Card 1/2

ARINSHTEYN, E.A., Cand Phys-math Sci--(diss) "Statistical theory of
crystallization." Mos, 1958. 17 p incl cover (Mos State Pedag^{Inst}
in V.I.Lenin), 140 copies. Bibliography at end of text (11 titles)
(KL, 47-58, 129)

- 2 -

24(7), 24(8) SOV/139-59-1-29/34
AUTHOR: Arinshteyn, E.A.
TITLE: On the Theory of Molecular Association in Gases (K
teorii molekulyarnykh assotsiatsiy v gazakh)
PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika,
1959, Nr 1, pp 166-167 (USSR)
ABSTRACT: The assumption of molecular association of gases (in the
simplest case binary association) makes it possible to
describe sufficiently precisely the behaviour of real
gases (Ref 1). Molecular association may be discussed
using the method of partial distribution functions. The
author applies this method to the case of spherically
symmetrical particles such as those of inert gases.
Using the Lennard-Jones potential, the author shows that
above the critical temperature association can occur both
in rarified and in dense gases. The paper is entirely
theoretical. There are 4 references, 3 of which are
Soviet and 1 translation from English into Russian.

Card 1/2

SOV/139-59-1-29/34
On the Theory of Molecular Association in Gases

ASSOCIATION: Tomskiy Inzhenerno-stroitel'nyy Institut
(Tomsk Civil Engineering Institute)

SUBMITTED: June 12, 1958

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SOV/139-59-2-14/30

AUTHOR: Arinshteyn, E.A.

TITLE: On Approximate Equations for the Radial Function of a Liquid

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 2, pp 92-98 (USSR)

ABSTRACT: The superposition approximation which has been considered by Bogolyubov (Ref 1) and Born and Green (Ref 2) and is defined by Eq (1) and (2) is shown to hold provided the condition given by Eq (10) is satisfied. This result is obtained using the "generating functional" suggested by Bogolyubov (ibid) and given by Eq (4). The correlation approximation, which is defined by Eq (11) and (12) is shown to hold provided the condition given by Eq (19) is satisfied. It is shown that the generating functional method may be used to obtain an expression for the fourth virial coefficient. It is very convenient since it allows an estimate to be made of the degree of approximation involved. There are 7 references, 3 of which are Soviet

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